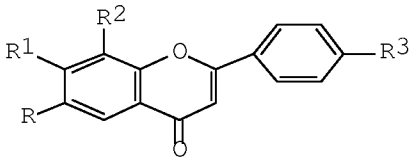
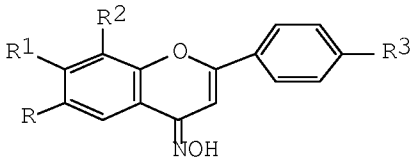
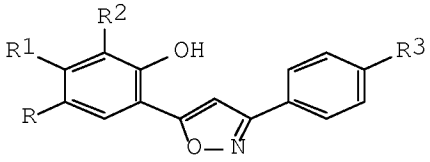
ACCESSION NUMBER: 1992:214399 CAPLUS Full-text
DOCUMENT NUMBER: 116:214399
TITLE: Benzo-γ-pyrones. Part XIV. Reaction of C-substituted 2-phenyl-4H-1-benzopyran-4-ones with hydroxylamine
AUTHOR(S): Basinski, Wlodzimierz
CORPORATE SOURCE: Fac. Pharm., Sch. Med., Lodz, 90151, Pol.
SOURCE: Polish Journal of Chemistry (1991), 65(9-10), 1619-32
CODEN: PJCHDQ; ISSN: 0137-5083
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:214399
GI



I



II

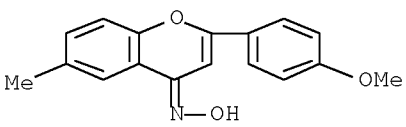


III

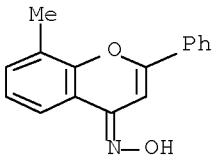
AB The reaction of flavones I (R, R1 = H, Me; R2 = H, Me, Br; R3 = H, MeO) with hydroxylamine in anhydrous pyridine was investigated. The oximes II and isoxazoles III were the products. It was determined that the ratio of II to III is dependent on the nature of substituent and its position in the flavone skeleton. It is postulated that the flavone is an ambient electrophile and that the reaction course is characteristic for this class of compds.

IT 115663-23-5P 140885-79-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, acetylation, IR, NMR, and mass spectrum of)

RN 115663-23-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-6-methyl-, oxime (CA INDEX NAME)



RN 140885-79-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-methyl-2-phenyl-, oxime (CA INDEX NAME)


Me
O
Ph
N—OH